

CLAIMS:

1. A wind turbine with floating foundation comprising a tower (3) supported on a foundation provided with a buoyancy structure which can be maintained on site by suitable anchor means (8), characterised in that said buoyancy structure comprises at least three separate buoyancy bodies (6) connected to a lower end of the tower (3) at a level substantially above sea level (9).
2. A wind turbine with floating foundation according to claim 1, characterised in that said connection to the lower end of the tower (3) takes place via a common node part.
3. A wind turbine with a floating foundation according to claim 2, characterised in that said node part is a separate node member (4).
4. A wind turbine with floating foundation according to claim 2, characterised in that said connection between the separate buoyancy members (6) and the node part is leg sections (5).
5. A wind turbine with floating foundation according to claim 4, characterised in that said leg sections (5) are of a circular cross-section.
6. A wind turbine with floating foundation according to claim 2 or 3, characterised in that said node part is positioned at a distance above the surface of the sea which is at least 30% of the total height of the tower above the surface (9) of the sea.
7. A wind turbine with floating foundation according to any of the preceding claims 1 to 4, characterised in that said buoyancy bodies (6) are cylindrical.
8. A wind turbine with floating foundation according to claim 7, characterised in that the longitudinal axis of the buoyancy bodies (6) is coincident with the longitudinal axis of the corresponding leg section (5).

9. A wind turbine with floating foundation according to claim 7 or 8, characterised in that the buoyancy bodies (6) are connected to the corresponding leg sections (5) via a conical transition member (10).
- 5 10. A wind turbine with floating foundation according to any of the preceding claims, characterised in that said connection of the separate buoyancy members (4) to the tower (3) takes place under an angle ( $\beta$ ) relative to the vertical axis Z through the tower (3) between 40 and 50 degrees.
- 10 11. A wind turbine with floating foundation according to any of the preceding claims, characterised in that said connections of the separate buoyancy members (4) to the tower (3) are uniformly distributed in the horizontal plane.
- 15 12. A wind turbine with floating foundation according to claim 1, characterised in that each of the separate buoyancy bodies (6) are provided with anchor means (8) for maintaining the foundation on site.
- 20 13. A wind turbine with floating foundation according to claim 1, characterised in that adjacent buoyancy bodies (6) are interconnected by means of a tension member (7).
14. A wind turbine with floating foundation according to claim 13, characterised in that said tension members (7) are pre-tensioned wires.